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Stream: Sycan River
 Site: SY-4 (Sycan River above Torrent Springs)

Date: 5/15/93

Habitat: Riffle

Flow: High

(1) Level Loop Survey (BM & HP)

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	3.91	103.91		
HP1			4.12	99.79
HP2			4.62	99.29
HP3			4.38	99.53
TP				
HP3	4.14	103.47		
HP2			4.20	99.27
HP1			3.67	99.80
BM			3.47	100.00

Comment: Run & RF level loops were surveyed together. See field notes for details.

Date: 6/26/93

Habitat: Riffle

Flow: Mid

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	6.45	106.45		
HP1			6.66	99.79
HP2			7.18	99.27
HP3			6.93	99.52
TP				
HP3	6.91	106.43		
HP2			7.16	99.27
HP1			6.64	99.79
BM			6.43	100.00

Comment:

Date: 9/14/93

Habitat: Riffle

Flow: Low

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	5.26	105.26		
HP3			5.74	99.52
HP2			6.00	99.26
HP1			5.47	99.79
TP				
HP1	4.83	104.62		
HP2			5.35	99.27
HP3			5.09	99.53
BM			4.62	100.00

Comment:

(2) Water Surface Elevation (WSE) Survey

	L/R WSE	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE RWE	11.4 22.8	103.47 103.47	6.52 6.46	0.00 0.00	96.95 97.01	96.98	653.7
TR2	LWE RWE	103.47 6.45	6.52 6.45	0.00 0.00	96.95 97.02	96.99		
TR3	LWE RWE	39.9 6.46	103.47 6.46	6.50 6.46	0.00 0.00	96.97 97.01	96.99	
Ave Q=								653.7

Note:
 WSE slope = 0.04%

(2) Water Surface Elevation (WSE) Survey

	L/R WSE	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE RWE	11.4 22.8	106.43 106.43	11.34 11.42	0.00 0.00	95.09 95.01	95.05	52.7
TR2	LWE RWE	106.43 11.15	11.26 11.15	0.00 0.00	95.17 95.28	95.23		46.3
TR3	LWE RWE	39.9 10.71	106.43 10.71	0.00 10.71	95.72 95.72	95.72		44.7
Ave Q (Riffle)=								47.9
Ave Q (Run)=								51.3
Ave Q (Run & Riffle)=								49.6

Note:
 WSE slope = 2.35%

(2) Water Surface Elevation (WSE) Survey

	L/R WSE	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE RWE	11.4 22.8	104.62 104.62	10.45 10.46	0.00 0.00	94.17 94.16	94.17	3.3
TR2	LWE RWE	104.62 9.94	9.94 9.58	0.00 0.00	94.68 95.04	94.86		4.1
TR3	LWE RWE	39.9 9.32	104.62 9.32	0.00 0.00	95.20 95.30	95.25		3.1
Ave Q (Riffle)=								3.5
Ave Q (Run)=								3.0
Ave Q (Run & Riffle)=								3.3

Note:
 WSE slope = 3.81%

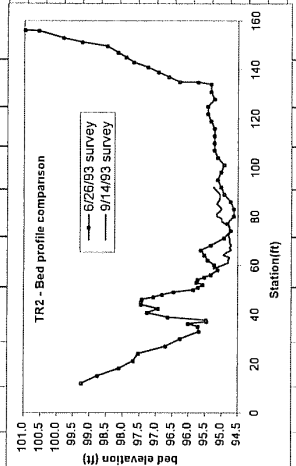
Stream: Sycau River									
Site: SY-4									
Transect: 1									
15-May-93									
	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)		q (cfs)	substrate	
					V _{0.206}	V _{0.8}			

Stream: Sycon River									
Site: SY-4									
Transect: 2									
Habitat: Rifle									
Survey	HI	Q							
Date	(ft)	(cfs)							
5/13/93	103.47								
6/26/93	106.43	46.3							
9/14/93	104.62	4.1							

Stream: Sycan River
 Site: SY-4
 Transect: 3
 Habitat: Rifle

Survey: HI O
 Date: 5/15/93 103.47
 6/26/93 106.43 44.7
 9/14/93 104.62 3.1

Stream: Sycan River													
Site: SY-4													
Transect: 3													
Habitat: Rifle													
Survey Date		Ht		Q									
5/15/93		103.47		(cfs)									
6/26/93		106.43		44.7									
9/14/93		104.62		3.1									



Sycane River SY_4 06/26/93

Riffle MID TRANSECT 1

IOC 1101100100001000101000

QARD 3.3

QARD 5.0

QARD 8.0

QARD 12.0

QARD 20.0

QARD 30.0

QARD 40.0

QARD 49.6

QARD 60.0

QARD 70.0

QARD 80.0

QARD 90.0

QARD 100.0

QARD 110.0

QARD 120.0

QARD 130.0

QARD 140.0

QARD 150.0

QARD 160.0

QARD 170.0

QARD 180.0

QARD 200.0

QARD 220.0

QARD 250.0

QARD 300.0

QARD 350.0

QARD 400.0

QARD 500.0

QARD 600.0

QARD 653.7

XSEC1000.0 0.00 1.0 93.25 0.0235

1000.0 0.0 99.5 2.5 99.3 5.0 99.0 7.5 98.4 10.0 98.0 12.5 97.7

1000.0 15.0 97.4 17.5 97.3 19.5 97.1 21.5 96.7 23.5 96.5 25.5 96.3

1000.0 27.5 96.4 29.5 96.8 31.5 96.8 33.5 96.3 35.5 95.9 37.5 95.5

1000.0 39.3 95.1 40.5 95.0 41.0 94.9 42.5 95.0 47.6 95.1 49.0 94.9

1000.0 50.0 94.8 52.0 94.3 54.0 94.1 55.0 94.1 56.0 93.6 57.0 93.8

1000.0 58.0 93.8 60.0 94.0 62.0 94.2 64.0 94.3 66.0 94.4 68.0 94.6

1000.0 71.0 94.6 74.0 94.8 76.2 95.1 90.5 95.1 92.5 95.0 95.0 95.0

1000.0 96.0 95.0 98.0 94.9103.0 95.0107.0 94.9109.0 94.9112.0 94.7

1000.0114.0 94.4118.0 93.9120.0 93.9122.0 93.6124.0 93.6126.0 93.3

1000.0128.0 93.5129.0 93.4130.0 93.4131.0 93.4133.0 93.4135.0 93.8

1000.0137.0 94.6139.3 95.1140.5 95.5141.5 95.9142.5 96.4143.5 96.9

1000.0145.0 97.6146.2 98.2147.6 99.1149.0100.0151.0101.0

NS 1000.0 6.6 6.6 6.6 6.6 6.6 6.6

NS 1000.0 6.6 6.6 6.6 6.6 6.6 6.6

NS 1000.0 1.1 1.1 1.1 1.1 1.1 1.1

NS 1000.0 1.1 9.9 9.9 1.1 0.2 1.1 0.2 9.9

NS 1000.0 0.25 9.9 0.16 9.9 0.1 5.5 .065 5.5 .072 5.5 .072 5.5

NS 1000.0 5.5 5.5 5.5 5.5 5.5 5.5 0.3 5.5

NS 1000.0 0.3 5.5 0.15 5.5 0.15 5.5 0.15 6.6 0.12 6.6 0.06 6.6

NS 1000.0 6.6 0.05 6.6 0.05 6.6 9.9 0.55 9.9 0.55 9.9

NS 1000.0 0.55 9.9 0.55 9.9 0.55 6.6 0.55 6.6 6.6 6.6

NS 1000.0 0.4 6.6 6.6 0.15 6.6 6.6 0.3 9.9 0.4 9.9

NS 1000.0 0.5 9.9 1.1 1.1 1.1 1.1 1.1 1.1

NS 1000.0 1.1 1.1 1.1 1.1 1.1 1.1

WSL 1000.0 94.16 94.24 94.34 94.43 94.53 94.64

WSL 1000.0 94.75 95.05 95.19 95.25 95.30 95.35

WSL 1000.0 95.40 95.45 95.49 95.53 95.58 95.61

WSL 1000.0 95.65 95.69 95.73 95.80 95.87 95.96

WSL 1000.0 96.11 96.24 96.39 96.65 96.87 96.98

CAL11000.0 95.05 49.6

VEL11000.0

VEL11000.0 0.00 0.00 0.00 0.00 0.00-0.01

VEL11000.0 0.18 0.50 0.86 4.54 4.36 3.96 3.38 3.00 0.83 1.31 0.30-0.01

VEL11000.0-0.06-0.02 0.00 0.00 0.15 0.63 0.65 0.85 0.96 0.01 0.03

VEL11000.0 0.02 0.04 0.26 0.25 0.87 0.92 0.21 0.84 2.72 0.84-0.09-0.01

VEL11000.0 0.05 0.00

CAL21000.0 94.17 3.3

VEL21000.0

VEL21000.0

VEL21000.0

VEL21000.0

VEL21000.0

VEL21000.0

CAL31000.0 96.98 653.7

VEL31000.0

VEL31000.0

VEL31000.0

VEL31000.0

VEL31000.0

VEL31000.0

ENDJ

Sycane River SY_4 06/26/93

Riffle MID TRANSECT 2

IOC 1101100100001000101000

QARD 3.3

QARD 5.0

QARD 8.0

QARD 12.0

QARD 20.0

QARD 30.0

QARD 40.0

QARD 49.6

QARD 60.0

QARD 70.0

QARD 80.0

QARD 90.0

QARD 100.0

QARD 110.0

QARD 120.0

QARD 130.0

QARD 140.0

QARD 150.0

QARD 160.0

QARD 170.0

QARD 180.0

QARD 200.0

QARD 220.0

QARD 250.0

QARD 300.0

QARD 350.0

QARD 400.0

QARD 500.0

QARD 600.0

QARD 653.7

XSEC1000.0 0.00 1.0 94.03 0.0235

1000.0 0.0 99.2 3.0 98.9 6.0 98.6 9.0 98.4 12.0 97.7 15.0 97.6

1000.0 17.6 97.0 19.3 96.9 20.3 97.1 20.6 97.6 22.0 97.6 24.0 97.6

1000.0 25.5 97.3 26.5 97.0 26.9 96.3 28.1 95.8 28.5 95.2 29.5 94.9

1000.0 30.5 94.7 31.5 94.8 32.9 95.1 40.5 95.2 41.0 95.0 42.0 94.9

1000.0 43.0 94.8 44.0 94.9 46.0 94.9 48.0 94.7 49.0 94.7 50.0 94.7

1000.0 52.0 94.0 53.0 94.2 56.0 94.4 59.0 94.6 62.0 94.8 65.0 94.7

1000.0 68.0 94.8 71.0 94.8 74.0 94.7 77.0 94.9 82.0 95.0 87.0 95.1

1000.0 91.0 95.1 94.0 95.0 97.0 94.9100.0 94.9103.0 95.0106.0 94.9

1000.0109.0 94.8112.0 94.8115.0 94.7118.0 94.5121.0 94.3122.0 94.1

1000.0123.0 94.3124.6 95.2125.3 95.7126.5 96.2127.5 96.5129.0 96.9

1000.0131.0 97.6132.0 97.8132.3 99.5135.6100.1136.2 99.2138.1100.1

1000.0140.3100.1142.1102.4

NS 1000.0 6.7 6.7 6.7 6.7 6.7 6.7

NS 1000.0 6.7 6.7 6.7 1.1 1.1 1.1

NS 1000.0 1.1 1.1 1.1 1.1 1.1 1.00 9.9

NS 1000.0 1.00 9.9 1.00 9.9 1.00 9.9 0.30 9.9 0.3 9.9 9.9

NS 1000.0 9.9 0.60 9.9 0.60 9.9 0.5 9.9 9.9 9.9

NS 1000.0 0.10 6.6 0.10 6.6 6.6 6.6 6.6 6.6

NS 1000.0 0.45 9.9 9.9 9.9 9.9 0.25 6.6 6.6

NS 1000.0 6.6 6.6 6.6 6.6 6.6 0.30 6.6 6.6

NS 1000.0 0.35 6.6 6.6 6.6 9.9 9.9 0.09 9.9

NS 1000.0 0.080 9.9 1.1 1.1 1.1 1.1 1.1

NS 1000.0 7.7 7.7 7.7 7.7 7.7 7.7

NS 1000.0 3.3 3.3

WSL 1000.0 94.86 94.87 94.91 94.92 95.02 95.07

WSL 1000.0 95.13 95.23 95.33 95.39 95.44 95.50

WSL 1000.0 95.54 95.59 95.63 95.67 95.72 95.75

WSL 1000.0 95.79 95.82 95.86 95.93 95.99 96.07

WSL 1000.0 96.21 96.33 96.46 96.69 96.89 96.99

CAL11000.0 95.23 49.6

VEL11000.0

VEL11000.0 0.00 0.01 0.01 0.01 0.01 0.01-0.01 0.85

VEL11000.0 0.61-0.01 0.03 2.20 1.51 1.61 3.95 3.48 1.67 0.66 0.78 0.35

VEL11000.0 0.19 1.45 0.75 0.36 0.03 0.82 0.72 0.77 0.59 0.62 0.17 0.42

VEL11000.0 0.11 0.60 0.40 1.10 1.93 3.15 3.56 0.00

VEL11000.0

CAL21000.0 94.86 3.3

VEL21000.0

VEL21000.0

VEL21000.0

VEL21000.0

VEL21000.0

VEL21000.0

CAL31000.0 96.99 653.7

VEL31000.0

VEL31000.0

VEL31000.0

VEL31000.0

VEL31000.0

VEL31000.0

ENDJ

Sycane River SY_4 06/26/93

Riffle	MID	TRANSECT 3
IOC	1101100100001000101000	
QARD	3.3	
QARD	5.0	
QARD	8.0	
QARD	12.0	
QARD	20.0	
QARD	30.0	
QARD	40.0	
QARD	49.6	
QARD	60.0	
QARD	70.0	
QARD	80.0	
QARD	90.0	
QARD	100.0	
QARD	110.0	
QARD	120.0	
QARD	130.0	
QARD	140.0	
QARD	150.0	
QARD	160.0	
QARD	170.0	
QARD	180.0	
QARD	200.0	
QARD	220.0	
QARD	250.0	
QARD	300.0	
QARD	350.0	
QARD	400.0	
QARD	500.0	
QARD	600.0	
QARD	653.7	
XSEC1000.0	0.00 1.0 94.62 0.0235	
1000.0	12.0 99.2 15.0 98.8 18.0 98.1 21.0 97.7 24.0 97.5 27.0 96.7	
1000.0	30.0 96.3 33.0 95.7 35.0 95.7 36.2 96.0 37.1 95.5 37.7 95.5	
1000.0	38.9 96.6 40.7 97.3 42.3 96.9 44.0 97.4 45.0 97.4 46.0 97.4	
1000.0	47.0 97.1 48.0 96.8 49.0 96.5 50.0 95.9 51.0 95.7 52.0 95.6	
1000.0	53.0 95.8 54.0 95.7 55.0 95.5 56.0 95.3 58.0 95.1 60.0 95.2	
1000.0	62.0 95.4 64.0 95.5 66.0 95.6 68.0 95.3 71.0 94.9 74.0 94.7	
1000.0	77.0 94.8 80.0 94.6 83.0 94.6 86.0 94.7 89.0 94.9 92.0 95.0	
1000.0	95.0 95.1 98.0 95.0101.0 94.9104.0 95.1107.0 95.2110.0 95.2	
1000.0113.0	95.2116.0 95.2119.0 95.3122.0 95.4125.0 95.4128.0 95.2	
1000.0131.0	95.3134.0 95.3134.9 95.7135.0 96.3137.0 96.6139.0 96.9	
1000.0141.0	97.3143.0 97.7145.0 97.9147.0 98.2149.6 98.5151.3 99.2	
1000.0153.0	99.8155.8100.6156.0101.0	
NS 1000.0	6.7 6.7 6.7 6.7 1.1 1.1	
NS 1000.0	1.1 1.1 1.1 1.1 1.1 1.1	
NS 1000.0	1.1 1.1 1.1 1.1 1.1 1.1	
NS 1000.0	1.1 1.1 1.1 1.1 1.1 1.1	
NS 1000.0	1.1 1.1 1.00 9.9 9.9 9.9 6.6	
NS 1000.0 0.5	6.6 5.5 5.5 5.5 5.5 5.5	
NS 1000.0	3.3 9.9 6.6 6.6 0.45 6.6 0.15 6.6	
NS 1000.0	6.6 6.6 6.6 6.6 6.6 6.6	
NS 1000.0	6.6 6.6 0.12 9.9 0.07 9.9 9.9	
NS 1000.0 0.20	7.7 0.40 7.7 7.7 7.7 7.7	
NS 1000.0	7.7 7.7 7.7 7.7 7.7 7.7	
NS 1000.0	7.7 7.7 7.7 7.7 7.7 7.7	
WSL 1000.0	95.25 95.26 95.35 95.43 95.53 95.61	
WSL 1000.0	95.68 95.72 95.78 95.84 95.89 95.94	
WSL 1000.0	95.98 96.03 96.07 96.11 96.14 96.17	
WSL 1000.0	96.21 96.23 96.26 96.32 96.37 96.43	
WSL 1000.0	96.53 96.61 96.69 96.82 96.94 97.00	
CAL11000.0	95.72 49.6	
VEL11000.0		
VEL11000.0		
VEL11000.0	0.00-0.04 0.14 0.37 0.12 0.01 0.18 0.00 0.43 1.48 1.30	
VEL11000.0	1.53 1.83 1.68 0.63-0.05 1.64 0.52 0.95 1.24 1.49 1.24 1.44	
VEL11000.0	1.13 1.10 0.81 2.00 1.25 1.13 0.11 0.05 0.00	
VEL11000.0		
CAL21000.0	95.25 3.3	
VEL21000.0		
VEL21000.0		
VEL21000.0		
VEL21000.0		
VEL21000.0		
VEL21000.0		
VEL21000.0		
CAL31000.0	96.99 653.7	
VEL31000.0		
VEL31000.0		
VEL31000.0		
VEL31000.0		
VEL31000.0		
VEL31000.0		
VEL31000.0		
ENDJ		

Sycane River SY_4 06/26/93

Riffle MID TRANSECT 1

IOC 01100000000000000000

QARD 3.3

QARD 5.0

QARD 8.0

QARD 12.0

QARD 20.0

QARD 30.0

QARD 40.0

QARD 49.6

QARD 60.0

QARD 70.0

QARD 80.0

QARD 90.0

QARD 100.0

QARD 110.0

QARD 120.0

QARD 130.0

QARD 140.0

QARD 150.0

QARD 160.0

QARD 170.0

QARD 180.0

QARD 200.0

QARD 220.0

QARD 250.0

QARD 300.0

QARD 350.0

QARD 400.0

QARD 500.0

QARD 600.0

QARD 653.7

XSEC1000.0 0.00 1.0 93.25 0.0235

1000.0 0.0 99.5 2.5 99.3 5.0 99.0 7.5 98.4 10.0 98.0 12.5 97.7

1000.0 15.0 97.4 17.5 97.3 19.5 97.1 21.5 96.7 23.5 96.5 25.5 96.3

1000.0 27.5 96.4 29.5 96.8 31.5 96.8 33.5 96.3 35.5 95.9 37.5 95.5

1000.0 39.3 95.1 40.5 95.0 41.0 94.9 42.5 95.0 47.6 95.1 49.0 94.9

1000.0 50.0 94.8 52.0 94.3 54.0 94.1 55.0 94.1 56.0 93.6 57.0 93.8

1000.0 58.0 93.8 60.0 94.0 62.0 94.2 64.0 94.3 66.0 94.4 68.0 94.6

1000.0 71.0 94.6 74.0 94.8 76.2 95.1 90.5 95.1 92.5 95.0 95.0 95.0

1000.0 96.0 95.0 98.0 94.9103.0 95.0107.0 94.9109.0 94.9112.0 94.7

1000.0114.0 94.4118.0 93.9120.0 93.9122.0 93.6124.0 93.6126.0 93.3

1000.0128.0 93.5129.0 93.4130.0 93.4131.0 93.4133.0 93.4135.0 93.8

1000.0137.0 94.6139.3 95.1140.5 95.5141.5 95.9142.5 96.4143.5 96.9

1000.0145.0 97.6146.2 98.2147.6 99.1149.0100.0151.0101.0

NS 1000.0 6.6 6.6 6.6 6.6 6.6 6.6

NS 1000.0 6.6 6.6 6.6 6.6 6.6 6.6

NS 1000.0 1.1 1.1 1.1 1.1 1.1 1.1

NS 1000.0 1.1 9.9 9.9 1.1 1.1 9.9

NS 1000.0 9.9 9.9 5.5 5.5 5.5 5.5

NS 1000.0 5.5 5.5 5.5 5.5 5.5 5.5

NS 1000.0 5.5 5.5 5.5 6.6 6.6 6.6

NS 1000.0 6.6 6.6 6.6 9.9 9.9 9.9

NS 1000.0 9.9 9.9 6.6 6.6 6.6 6.6

NS 1000.0 6.6 6.6 6.6 6.6 9.9 9.9

NS 1000.0 9.9 1.1 1.1 1.1 1.1 1.1

NS 1000.0 1.1 1.1 1.1 1.1 1.1

CALQ1000.0 95.05 49.6 -2.50

ENDJ

Sycane River SY_4 06/26/93

Riffle MID TRANSECT 1

IOC 01100000000000000000

QARD 3.3

QARD 5.0

QARD 8.0

QARD 12.0

QARD 20.0

QARD 30.0

QARD 40.0

QARD 49.6

QARD 60.0

QARD 70.0

QARD 80.0

QARD 90.0

QARD 100.0

QARD 110.0

QARD 120.0

QARD 130.0

QARD 140.0

QARD 150.0

QARD 160.0

QARD 170.0

QARD 180.0

QARD 200.0

QARD 220.0

QARD 250.0

QARD 300.0

QARD 350.0

QARD 400.0

QARD 500.0

QARD 600.0

QARD 653.7

XSEC1000.0 0.00 1.0 93.25 0.0235

1000.0 0.0 99.5 2.5 99.3 5.0 99.0 7.5 98.4 10.0 98.0 12.5 97.7

1000.0 15.0 97.4 17.5 97.3 19.5 97.1 21.5 96.7 23.5 96.5 25.5 96.3

1000.0 27.5 96.4 29.5 96.8 31.5 96.8 33.5 96.3 35.5 95.9 37.5 95.5

1000.0 39.3 95.1 40.5 95.0 41.0 94.9 42.5 95.0 47.6 95.1 49.0 94.9

1000.0 50.0 94.8 52.0 94.3 54.0 94.1 55.0 94.1 56.0 93.6 57.0 93.8

1000.0 58.0 93.8 60.0 94.0 62.0 94.2 64.0 94.3 66.0 94.4 68.0 94.6

1000.0 71.0 94.6 74.0 94.8 76.2 95.1 90.5 95.1 92.5 95.0 95.0 95.0

1000.0 96.0 95.0 98.0 94.9103.0 95.0107.0 94.9109.0 94.9112.0 94.7

1000.0114.0 94.4118.0 93.9120.0 93.9122.0 93.6124.0 93.6126.0 93.3

1000.0128.0 93.5129.0 93.4130.0 93.4131.0 93.4133.0 93.4135.0 93.8

1000.0137.0 94.6139.3 95.1140.5 95.5141.5 95.9142.5 96.4143.5 96.9

1000.0145.0 97.6146.2 98.2147.6 99.1149.0100.0151.0101.0

NS 1000.0 6.6 6.6 6.6 6.6 6.6 6.6

NS 1000.0 6.6 6.6 6.6 6.6 6.6 6.6

NS 1000.0 1.1 1.1 1.1 1.1 1.1 1.1

NS 1000.0 1.1 9.9 9.9 1.1 1.1 9.9

NS 1000.0 9.9 9.9 5.5 5.5 5.5 5.5

NS 1000.0 5.5 5.5 5.5 5.5 5.5 5.5

NS 1000.0 5.5 5.5 5.5 6.6 6.6 6.6

NS 1000.0 6.6 6.6 6.6 9.9 9.9 9.9

NS 1000.0 9.9 9.9 6.6 6.6 6.6 6.6

NS 1000.0 6.6 6.6 6.6 6.6 9.9 9.9

NS 1000.0 9.9 1.1 1.1 1.1 1.1 1.1

NS 1000.0 1.1 1.1 1.1 1.1 1.1 1.1

CALQ1000.0 96.98 653.7 -0.20

ENDJ

Sycane River SY_4 06/26/93												
RUN	MID											
PARD	30	1.00	0	1.000								
QARD	3.3	94.16		5.800	5.800							
QARD	5.0	94.24		4.000	4.000							
QARD	8.0	94.34		3.000	3.000							
QARD	12.0	94.43		2.000	2.000							
QARD	20.0	94.53		1.750	1.750							
QARD	30.0	94.64		1.400	1.400							
QARD	40.0	94.75		1.200	1.200							
QARD	49.6	95.05		1.000	1.000							
QARD	60.0	95.19		0.990	0.990							
QARD	70.0	95.25		0.980	0.980							
QARD	80.0	95.30		0.970	0.970							
QARD	90.0	95.35		0.960	0.960							
QARD	100.0	95.40		0.950	0.950							
QARD	110.0	95.45		0.940	0.940							
QARD	120.0	95.49		0.920	0.920							
QARD	130.0	95.53		0.910	0.910							
QARD	140.0	95.58		0.900	0.900							
QARD	150.0	95.61		0.890	0.890							
QARD	160.0	95.65		0.880	0.880							
QARD	170.0	95.69		0.870	0.870							
QARD	180.0	95.73		0.860	0.860							
QARD	200.0	95.80		0.840	0.840							
QARD	220.0	95.87		0.820	0.820							
QARD	250.0	95.96		0.780	0.780							
QARD	300.0	96.11		0.730	0.730							
QARD	350.0	96.24		0.680	0.680							
QARD	400.0	96.39		0.620	0.620							
QARD	500.0	96.65		0.520	0.520							
QARD	600.0	96.87		0.410	0.410							
QARD	653.7	96.98		0.350	0.350							
FFFFTTTT												**
11.4	0.0	99.5	2.5	99.3	5.0	99.0	7.5	98.4	10.0	98.0	12.5	97.7
11.4	15.0	97.4	17.5	97.3	19.5	97.1	21.5	96.7	23.5	96.5	25.5	96.3
11.4	27.5	96.4	29.5	96.8	31.5	96.8	33.5	96.3	35.5	95.9	37.5	95.5
11.4	39.3	95.1	40.5	95.0	41.0	94.9	42.5	95.0	47.6	95.1	49.0	94.9
11.4	50.0	94.8	52.0	94.3	54.0	94.1	55.0	94.1	56.0	93.6	57.0	93.8
11.4	58.0	93.8	60.0	94.0	62.0	94.2	64.0	94.3	66.0	94.4	68.0	94.6
11.4	71.0	94.6	74.0	94.8	76.2	95.1	90.5	95.1	92.5	95.0	95.0	95.0
11.4	96.0	95.0	98.0	94.9	103.0	95.0	107.0	94.9	109.0	94.9	112.0	94.7
11.4	114.0	94.4	118.0	93.9	120.0	93.9	122.0	93.6	124.0	93.6	126.0	93.3
11.4	128.0	93.5	129.0	93.4	130.0	93.4	131.0	93.4	133.0	93.4	135.0	93.8
11.4	137.0	94.6	139.3	95.1	140.5	95.5	141.5	95.9	142.5	96.4	143.5	96.9
11.4	145.0	97.6	146.2	98.2	147.6	99.1	149.0	100.0	151.0	101.0	101.0	
11.4	0.13	0.0	0.13	2.5	0.13	5.0	0.13	7.5				*
11.4	0.13	10.0	0.13	12.5	0.13	15.0	0.13	17.5				*
11.4	0.13	19.5	0.13	21.5	0.13	23.5	0.13	25.5				*
11.4	0.13	27.5	0.13	29.5	0.13	31.5	0.13	33.5				*
11.4	0.13	35.5	0.13	37.5	0.13	39.3	0.13	40.5				*
11.4	0.13	41.0	0.13	42.5	0.13	47.6	0.13	49.0				*
11.4	0.13	50.0	0.13	52.0	0.13	54.0	0.13	55.0				*
11.4	0.13	56.0	0.13	57.0	0.13	58.0	0.13	60.0				*
11.4	0.13	62.0	0.13	64.0	0.13	66.0	0.13	68.0				*
11.4	0.13	71.0	0.13	74.0	0.13	76.2	0.13	90.5				*
11.4	0.13	92.5	0.13	95.0	0.13	96.0	0.13	98.0				*
11.4	0.13	103.0	0.13	107.0	0.13	109.0	0.13	112.0				*
11.4	0.13	114.0	0.13	118.0	0.13	120.0	0.13	122.0				*
11.4	0.13	124.0	-0.13	126.0	0.13	128.0	0.13	129.0				*
11.4	0.13	130.0	0.13	131.0	0.13	133.0	0.13	135.0				*
11.4	0.13	137.0	0.13	139.3	0.13	140.5	0.13	141.5				*
11.4	0.13	142.5	0.13	143.5	0.13	145.0	0.13	146.2				*
11.4	0.13	147.6	0.13	149.0	0.13	151.0						*
22.8	0.0	99.2	3.0	98.9	6.0	98.6	9.0	98.4	12.0	97.7	15.0	97.6
22.8	17.6	97.0	19.3	96.9	20.3	97.1	20.6	97.6	22.0	97.6	24.0	97.6
22.8	25.5	97.3	26.5	97.0	26.9	96.3	28.1	95.8	28.5	95.2	29.5	94.9
22.8	30.5	94.7	31.5	94.8	32.9	95.1	40.5	95.2	41.0	95.0	42.0	94.9
22.8	43.0	94.8	44.0	94.9	46.0	94.9	48.0	94.7	49.0	94.7	50.0	94.7
22.8	52.0	94.0	53.0	94.2	56.0	94.4	59.0	94.6	62.0	94.8	65.0	94.7
22.8	68.0	94.8	71.0	94.8	74.0	94.7	77.0	94.9	82.0	95.0	87.0	95.1
22.8	91.0	95.1	94.0	95.0	97.0	94.9	100.0	94.9	103.0	95.0	106.0	94.9
22.8	109.0	94.8	112.0	94.8	115.0	94.7	118.0	94.5	121.0	94.3	122.0	94.1
22.8	123.0	94.3	124.6	95.2	125.3	95.7	126.5	96.2	127.5	96.5	129.0	96.9
22.8	131.0	97.6	132.0	97.8	132.3	99.5	135.6	100.1	136.2	99.2	138.1	1100.1
22.8	140.3	100.1	142.1	1102.4								
22.8	0.13	0.0	0.13	3.0	0.13	6.0	0.13	9.0				*
22.8	0.13	12.0	0.13	15.0	0.13	17.6	0.13	19.3				*
22.8	0.13	20.3	0.13	20.6	0.13	22.0	0.13	24.0				*
22.8	0.13	25.5	0.13	26.5	0.13	26.9	0.13	28.1				*
22.8	0.13	28.5	0.13	29.5	0.13	30.5	0.13	31.5				*

22.8	0.13	32.9	0.13	40.5	0.13	41.0	0.13	42.0	*	
22.8	0.13	43.0	0.13	44.0	0.13	46.0	0.13	48.0	*	
22.8	0.13	49.0	0.13	50.0	- .13	52.0	0.13	53.0	*	
22.8	0.13	56.0	0.13	59.0	0.13	62.0	0.13	65.0	*	
22.8	0.13	68.0	0.13	71.0	0.13	74.0	0.13	77.0	*	
22.8	0.13	82.0	0.13	87.0	0.13	91.0	0.13	94.0	*	
22.8	0.13	97.0	0.13	100.0	0.13	103.0	0.13	106.0	*	
22.8	0.13109.0	0.13	112.0	0.13	115.0	0.13	118.0	0.13	118.0	*
22.8	0.13121.0	0.13	122.0	0.13	123.0	0.13	124.6	0.13	124.6	*
22.8	0.13125.3	0.13	126.5	0.13	127.5	0.13	129.0	0.13	129.0	*
22.8	0.13131.0	0.13	132.0	0.13	132.3	0.13	135.6	0.13	135.6	*
22.8	0.13136.2	0.13	138.1	0.13	140.3	0.13	142.1	0.13	142.1	*

ENDJ
ENDR
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Sycane River SY_4 06/26/93

RUN	MID			
PARD 30	1.00	0	1.000	
QARD 3.3	94.86		2.900	2.900
QARD 5.0	94.87		2.000	2.000
QARD 8.0	94.91		1.800	1.800
QARD 12.0	94.92		1.630	1.630
QARD 20.0	95.02		1.400	1.400
QARD 30.0	95.07		1.200	1.200
QARD 40.0	95.13		1.100	1.100
QARD 49.6	95.23		1.000	1.000
QARD 60.0	95.33		0.990	0.990
QARD 70.0	95.39		0.970	0.970
QARD 80.0	95.44		0.960	0.960
QARD 90.0	95.50		0.950	0.950
QARD 100.0	95.54		0.930	0.930
QARD 110.0	95.59		0.920	0.920
QARD 120.0	95.63		0.910	0.910
QARD 130.0	95.67		0.900	0.900
QARD 140.0	95.72		0.880	0.880
QARD 150.0	95.75		0.870	0.870
QARD 160.0	95.79		0.860	0.860
QARD 170.0	95.82		0.840	0.840
QARD 180.0	95.86		0.830	0.830
QARD 200.0	95.93		0.810	0.810
QARD 220.0	95.99		0.780	0.780
QARD 250.0	96.07		0.740	0.740
QARD 300.0	96.21		0.680	0.680
QARD 350.0	96.33		0.610	0.610
QARD 400.0	96.46		0.550	0.550
QARD 500.0	96.69		0.420	0.420
QARD 600.0	96.89		0.290	0.290
QARD 653.7	96.99		0.220	0.220
FFFFTTTT				
22.8 0.0 99.2 3.0 98.9 6.0 98.6 9.0 98.4 12.0 97.7 15.0 97.6				
22.8 17.6 97.0 19.3 96.9 20.3 97.1 20.6 97.6 22.0 97.6 24.0 97.6				
22.8 25.5 97.3 26.5 97.0 26.9 96.3 28.1 95.8 28.5 95.2 29.5 94.9				
22.8 30.5 94.7 31.5 94.8 32.9 95.1 40.5 95.2 41.0 95.0 42.0 94.9				
22.8 43.0 94.8 44.0 94.9 46.0 94.9 48.0 94.7 49.0 94.7 50.0 94.7				
22.8 52.0 94.0 53.0 94.2 56.0 94.4 59.0 94.6 62.0 94.8 65.0 94.7				
22.8 68.0 94.8 71.0 94.8 74.0 94.7 77.0 94.9 82.0 95.0 87.0 95.1				
22.8 91.0 95.1 94.0 95.0 97.0 94.9100.0 94.9103.0 95.0106.0 94.9				
22.8109.0 94.8112.0 94.8115.0 94.7118.0 94.5121.0 94.3122.0 94.1				
22.8123.0 94.3124.6 95.2125.3 95.7126.5 96.2127.5 96.5129.0 96.9				
22.8131.0 97.6132.0 97.8132.3 99.5135.6100.1136.2 99.2138.1100.1				
22.8140.3100.1142.1102.4				
22.8 0.16 0.0 0.16 3.0 0.16 6.0 0.16 9.0				*
22.8 0.16 12.0 0.16 15.0 0.16 17.6 0.16 19.3				*
22.8 0.16 20.3 0.16 20.6 0.16 22.0 0.16 24.0				*
22.8 0.16 25.5 0.16 26.5 0.16 26.9 0.16 28.1				*
22.8 0.16 28.5 0.16 29.5 0.16 30.5 0.16 31.5				*
22.8 0.16 32.9 0.16 40.5 0.16 41.0 0.16 42.0				*
22.8 0.16 43.0 0.16 44.0 0.16 46.0 0.16 48.0				*
22.8 0.16 49.0 0.16 50.0 -0.16 52.0 0.16 53.0				*
22.8 0.16 56.0 0.16 59.0 0.16 62.0 0.16 65.0				*
22.8 0.16 68.0 0.16 71.0 0.16 74.0 0.16 77.0				*
22.8 0.16 82.0 0.16 87.0 0.16 91.0 0.16 94.0				*
22.8 0.16 97.0 0.16 100.0 0.16 103.0 0.16 106.0				*
22.8 0.16109.0 0.16 112.0 0.16 115.0 0.16 118.0				*
22.8 0.16121.0 0.16 122.0 0.16 123.0 0.16 124.6				*
22.8 0.16125.3 0.16 126.5 0.16 127.5 0.16 129.0				*
22.8 0.16131.0 0.16 132.0 0.16 132.3 0.16 135.6				*
22.8 0.16136.2 0.16 138.1 0.16 140.3 0.16 142.1				*
39.9 12.0 99.2 15.0 98.8 18.0 98.1 21.0 97.7 24.0 97.5 27.0 96.7				
39.9 30.0 96.3 33.0 95.7 35.0 95.7 36.2 96.0 37.1 95.5 37.7 95.5				
39.9 38.9 96.6 40.7 97.3 42.3 96.9 44.0 97.4 45.0 97.4 46.0 97.4				
39.9 47.0 97.1 48.0 96.8 49.0 96.5 50.0 95.9 51.0 95.7 52.0 95.6				
39.9 53.0 95.8 54.0 95.7 55.0 95.5 56.0 95.3 58.0 95.1 60.0 95.2				
39.9 62.0 95.4 64.0 95.5 66.0 95.6 68.0 95.3 71.0 94.9 74.0 94.7				
39.9 77.0 94.8 80.0 94.6 83.0 94.6 86.0 94.7 89.0 94.9 92.0 95.0				
39.9 95.0 95.1 98.0 95.0101.0 94.9104.0 95.1107.0 95.2110.0 95.2				
39.9113.0 95.2116.0 95.2119.0 95.3122.0 95.4125.0 95.4128.0 95.2				
39.9131.0 95.3134.0 95.3134.9 95.7135.0 96.3137.0 96.6139.0 96.9				
39.9141.0 97.3143.0 97.7145.0 97.9147.0 98.2149.6 98.5151.3 99.2				
39.9153.0 99.8155.8100.6156.0101.0				
39.9 0.17 12.0 0.17 15.0 0.17 18.0 0.17 21.0				*
39.9 0.17 24.0 0.17 27.0 0.17 30.0 0.17 33.0				*
39.9 0.17 35.0 0.17 36.2 0.17 37.1 0.17 37.7				*
39.9 0.17 38.9 0.17 40.7 0.17 42.3 0.17 44.0				*
39.9 0.17 45.0 0.17 46.0 0.17 47.0 0.17 48.0				*
39.9 0.17 49.0 0.17 50.0 0.17 51.0 0.17 52.0				*

39.9 0.17 53.0	0.17 54.0	0.17 55.0	0.17 56.0	*
39.9 0.17 58.0	0.17 60.0	0.17 62.0	0.17 64.0	*
39.9 0.17 66.0	0.17 68.0	0.17 71.0	0.17 74.0	*
39.9 0.17 77.0	-0.17 80.0	0.17 83.0	0.17 86.0	*
39.9 0.17 89.0	0.17 92.0	0.17 95.0	0.17 98.0	*
39.9 0.17101.0	0.17 104.0	0.17 107.0	0.17 110.0	*
39.9 0.17113.0	0.17 116.0	0.17 119.0	0.17 122.0	*
39.9 0.17125.0	0.17 128.0	0.17 131.0	0.17 134.0	*
39.9 0.17134.9	0.17 135.0	0.17 137.0	0.17 139.0	*
39.9 0.17141.0	0.17 143.0	0.17 145.0	0.17 147.0	*
39.9 0.17149.6	0.17 151.3	0.17 153.0	0.17 155.8	*
39.9 0.17156.0				*

ENDJ
 ENDR
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Stream: Sycan River (Sycan River above Torrent Springs)

Site: SY-4

Date: 5/15/93

Habitat: Run

Flow: High

(1) Level Loop Survey (BM & HP)

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	3.91	103.91		
HP1			4.87	99.04
HP2			4.03	99.88
HP3			4.58	99.33
TP				
HP3	4.14	103.47		
HP2			4.59	98.88
HP1			4.43	99.04
BM			3.47	100.00

Comment:

Date: 6/26/93

Habitat: Run

Flow: Mid

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	6.45	106.45		
HP1			6.66	99.79
HP2			7.18	99.27
HP3			6.93	99.52
TP				
HP3	6.91	106.43		
HP2			7.16	99.27
HP1			6.64	99.79
BM			6.43	100.00

Comment: This is Rifle's level loop

Date: 9/14/93

Habitat: Run

Flow: Low

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	3.91	103.91		
HP1			4.87	99.04
HP2			5.03	98.88
HP3			4.58	99.33
TP				
HP3	4.44	103.77		
HP2			4.91	98.86
HP1			4.73	99.04
BM			3.78	99.99

Comment:

(2) Water Surface Elevation (WSE) Survey

	L/R WSE	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE RWE	106 133.5	103.47 103.47	5.67 5.66	0.00 0.00	97.80 97.81	97.81	653.7
TR2	LWE RWE	133.5 189.7	103.47 103.47	5.65 5.61	0.00 0.00	97.82 97.86	97.84	
TR3	LWE RWE	189.7	103.47	5.60	0.00	97.87	97.84	

Note:

WSE slope = 0.036%

Ave Q= 653.7

(2) Water Surface Elevation (WSE) Survey

HI=

	L/R WSE	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE RWE	106 133.5	103.77 103.77	8.22 8.20	0.00 0.00	95.55 95.57	95.56	3.4
TR2	LWE RWE	133.5 189.7	103.77 103.77	8.19 8.20	0.00 0.00	95.58 95.57	95.58	2.0
TR3	LWE RWE	189.7	103.77	8.17	0.00	95.60	95.60	3.8

Note:

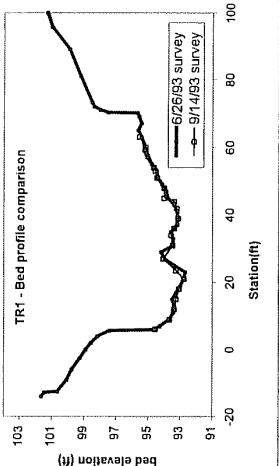
WSE slope = 0.042%

Ave Q(Run)= 3.0

Ave Q(Rifle)= 3.5

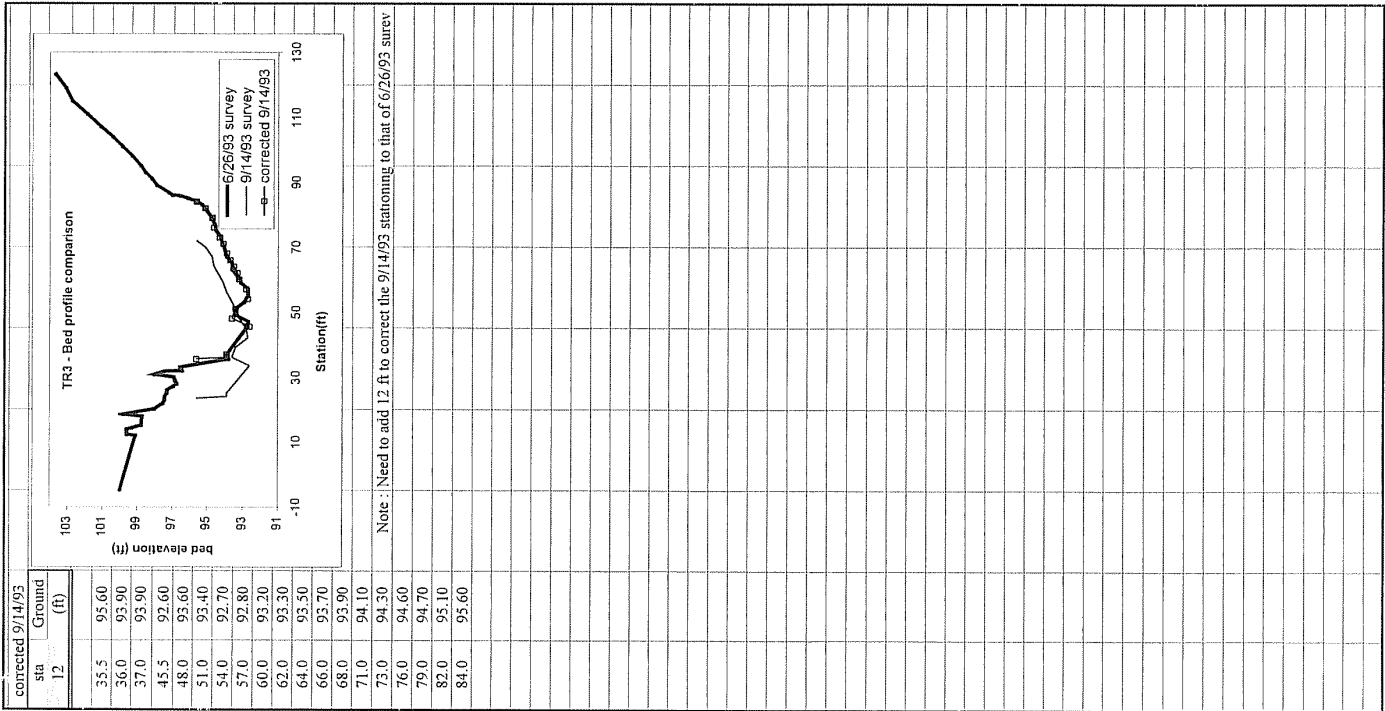
Ave Q(Run & Rifle)= 3.3

Stream: Sycan River										15-May-93										26-Jun-93										14-Sep-93									
Site: SY-4										Depth										Depth										Depth									
Transect: 1										Sta										Sta										Sta									
Habitat: Run										FS										FS										FS									
										Ground										Ground										Ground									
										Vel (ft/s)										Vel (ft/s)										Vel (ft/s)									
										V _{0.206}										V _{0.206}										V _{0.206}									
										Ave										Ave										Ave									
										q										q										q									
										substrate										substrate										substrate									
RWE	13.1									0.00	0.00																												
	15.5									0.35	0.29																												
	18									0.30	0.29																												
	23									1.00	0.84																												
	28									0.90	1.53																												
	33									2.40	2.08																												
	38									2.90	2.25																												
	43									4.30	2.06																												
	48									5.00	1.66																												
	53									5.00	3.10																												
	58									4.70	3.12																												
	63									4.30	3.05																												
	68									4.10	3.44																												
	73									3.70	3.53																												
	78									4.10	3.37																												
	83									4.30	3.05																												
	88									4.00	3.23																												
	93									2.55	3.05																												
	96									2.30	1.85																												
	98									1.75	1.16																												
	101									1.55	0.53																												
	104									1.65	0.97																												
	106									1.00	0.41																												
	108									1.10	0.00																												
LWE	109.0									0.00	0.00																												
This is not profile. This is the Q-transect.																																							
																				</																			



Stream: Sycon River			15-May-93										26-Jun-93										14-Sep-93												
Site: SY-4			Sta	FS	Ground	Depth	Vel (ft/s)		q		substrate			Sta	FS	Ground	Depth	Vel (ft/s)		q		substrate			Sta	FS	Ground	Depth	Vel (ft/s)		q		substrate		
Transsect: 3			(ft)	(ft)	(ft)	(ft)	V _{0.2-0.6}	V _{0.8}	Ave	(cfs)			(ft)	(ft)	(ft)	(ft)	V _{0.2-0.6}	V _{0.8}	Ave	(cfs)			(ft)	(ft)	(ft)	(ft)	V _{0.2-0.6}	V _{0.8}	Ave	(cfs)					
Habitat: Run																																			
Survey	HI	Q																																	
Date	(ft)	(cfs)																																	
5/15/93	103.47																																		
6/26/93	104.03	55.3																																	
9/14/93	103.77	3.8																																	
													</																						

[illegible]



Sycane River SY_4 06/26/93

RUN	MID	TRANSECT 1
IOC	1101100000001000101000	
QARD	3.3	
QARD	5.0	
QARD	8.0	
QARD	12.0	
QARD	20.0	
QARD	30.0	
QARD	40.0	
QARD	49.6	
QARD	60.0	
QARD	70.0	
QARD	80.0	
QARD	90.0	
QARD	100.0	
QARD	110.0	
QARD	120.0	
QARD	130.0	
QARD	140.0	
QARD	150.0	
QARD	160.0	
QARD	170.0	
QARD	180.0	
QARD	200.0	
QARD	220.0	
QARD	250.0	
QARD	300.0	
QARD	350.0	
QARD	400.0	
QARD	500.0	
QARD	600.0	
QARD	653.7	
XSEC1000.0	0.00 1.0 92.68 0.00012	
1000.0	-14.0101.6-12.9101.4-12.6100.7 -9.0100.1 -6.0 99.8 -2.5 99.3	
1000.0	0.0 98.9 2.0 98.6 4.0 98.1 5.7 97.4 5.9 94.6 7.0 94.3	
1000.0	9.0 93.7 11.0 93.4 13.0 93.4 15.0 93.5 17.0 93.2 19.0 93.0	
1000.0	21.0 92.8 23.0 92.7 25.0 93.4 27.0 94.0 29.0 94.2 31.0 93.4	
1000.0	33.0 93.4 35.0 93.6 37.0 93.2 39.0 93.2 41.0 93.2 43.0 93.4	
1000.0	45.0 93.8 47.0 93.9 49.0 94.1 51.0 94.4 53.0 94.5 55.0 94.8	
1000.0	57.0 95.1 59.0 95.3 61.0 95.3 63.0 95.4 65.0 95.6 67.0 95.4	
1000.0	69.0 95.6 70.1 95.7 70.2 97.5 71.0 98.0 72.0 98.4 73.2 98.5	
1000.0	81.0 99.2 89.0 99.9 95.7101.0100.0101.3	
NS 1000.0	1.1 1.1 1.1 1.1 1.1 1.1 1.1	
NS 1000.0	1.1 1.1 1.1 0.4 1.1 0.3 1.1 0.3 3.3	
NS 1000.0	0.3 3.3 8.8 8.8 8.8 8.8 8.8	
NS 1000.0	8.6 8.6 0.3 8.6 0.2 5.5 0.2 5.5 5.5	
NS 1000.0	5.5 0.1 5.5 5.5 6.6 6.8 6.8	
NS 1000.0	.055 8.8 .055 8.6 8.6 8.6 8.8 9.8	
NS 1000.0	9.9 0.08 9.9 0.1 9.9 0.12 9.8 0.16 1.1 0.2 1.1	
NS 1000.0	0.2 1.1 0.2 1.1 .2 1.1 .2 1.1 .2 1.1 1.1	
NS 1000.0	1.1 1.1 1.1 1.1	
CAL11000.0	96.58 49.6	
VEL11000.0		0.01 0.01
VEL11000.0	0.03 0.20 0.28 0.32 0.33 0.46 0.25 0.13-0.02 0.01 0.08 0.30	
VEL11000.0	0.33 0.11 0.21 0.51 0.62 0.60 0.68 0.71 0.51 0.58 0.38 0.38	
VEL11000.0	0.35 0.13 0.09 0.04 0.02 0.03 0.01 0.03	
VEL11000.0		
CAL21000.0	95.56 3.3	
VEL21000.0		
VEL21000.0		
VEL21000.0		
VEL21000.0		
VEL21000.0		
CAL31000.0	97.81 653.7	
VEL31000.0		
VEL31000.0		
VEL31000.0		
VEL31000.0		
VEL31000.0		
ENDJ		

Sycane River SY_4 06/26/93

RUN	MID	TRANSECT 2
IOC	1101100000001000101000	
QARD	3.3	
QARD	5.0	
QARD	8.0	
QARD	12.0	
QARD	20.0	
QARD	30.0	
QARD	40.0	
QARD	49.6	
QARD	60.0	
QARD	70.0	
QARD	80.0	
QARD	90.0	
QARD	100.0	
QARD	110.0	
QARD	120.0	
QARD	130.0	
QARD	140.0	
QARD	150.0	
QARD	160.0	
QARD	170.0	
QARD	180.0	
QARD	200.0	
QARD	220.0	
QARD	250.0	
QARD	300.0	
QARD	350.0	
QARD	400.0	
QARD	500.0	
QARD	600.0	
QARD	653.7	
XSEC1000.0	0.00 1.0 92.68 0.00012	
1000.0	-5.0 99.4 -3.0 99.0 0.0 98.4 2.0 98.2 3.0 97.8 4.0 97.5	
1000.0	5.0 96.8 5.5 96.6 6.0 96.4 7.0 96.0 9.0 93.9 11.0 93.2	
1000.0	13.0 93.1 15.0 93.0 17.0 92.9 19.0 93.0 21.0 92.7 23.0 92.6	
1000.0	25.0 92.6 27.0 92.7 29.0 92.6 31.0 92.7 33.0 93.0 35.0 93.2	
1000.0	37.0 93.5 39.0 93.6 41.0 93.8 43.0 93.9 45.0 94.0 47.0 94.2	
1000.0	49.0 94.2 51.0 94.5 53.0 94.7 55.0 94.8 57.0 95.0 59.0 94.8	
1000.0	61.0 95.1 63.0 95.3 64.0 95.5 65.0 95.7 65.5 95.9 65.9 97.3	
1000.0	66.7 97.9 68.0 98.1 69.7 98.1 73.0 98.6 76.0 99.0 80.0 99.7	
1000.0	85.0100.8 88.0101.3	
NS 1000.0	1.1 1.1 1.1 1.1 1.1 1.1	
NS 1000.0	1.1 1.1 1.1 0.5 1.1 0.5 8.8 0.5 8.9	
NS 1000.0	0.5 8.8 8.6 8.6 8.6 8.6 8.6 8.6	
NS 1000.0	8.6 8.6 8.6 0.09 8.6 0.09 8.6 0.07 8.6	
NS 1000.0	8.6 .055 8.6 .055 8.6 8.6 8.6 8.6	
NS 1000.0	8.6 8.6 8.6 8.6 0.1 9.8 0.2 9.8	
NS 1000.0	0.3 9.8 0.5 9.8 0.5 9.8 0.5 9.8 0.5 9.8 1.3	
NS 1000.0	1.3 1.3 1.3 1.3 1.3 1.3 1.3	
NS 1000.0	1.3 1.3	
CAL11000.0	96.61 49.6	
VEL11000.0	0.00 0.01 0.02 0.02 0.01	
VEL11000.0	0.04 0.08 0.11 0.15 0.22 0.26 0.36 0.30 0.33 0.36 0.32 0.62	
VEL11000.0	0.47 0.62 0.70 0.63 0.53 0.54 0.54 0.39 0.45 0.28 0.04-0.01	
VEL11000.0	-0.01 0.01-0.01 0.01 0.03	
VEL11000.0		
CAL21000.0	95.58 3.3	
VEL21000.0		
VEL21000.0		
VEL21000.0		
VEL21000.0		
VEL21000.0		
CAL31000.0	97.84 653.7	
VEL31000.0		
VEL31000.0		
VEL31000.0		
VEL31000.0		
VEL31000.0		
ENDJ		

Sycane River SY_4 06/26/93

RUN	MID	TRANSECT
IOC	1101100100001000101000	3
QARD	3.3	
QARD	5.0	
QARD	8.0	
QARD	12.0	
QARD	20.0	
QARD	30.0	
QARD	40.0	
QARD	49.6	
QARD	60.0	
QARD	70.0	
QARD	80.0	
QARD	90.0	
QARD	100.0	
QARD	110.0	
QARD	120.0	
QARD	130.0	
QARD	140.0	
QARD	150.0	
QARD	160.0	
QARD	170.0	
QARD	180.0	
QARD	200.0	
QARD	220.0	
QARD	250.0	
QARD	300.0	
QARD	350.0	
QARD	400.0	
QARD	500.0	
QARD	600.0	
QARD	653.7	
XSEC1000.0	0.00 1.0 92.69 0.00012	
1000.0	-4.7100.0 12.0 99.1 12.4 99.6 14.0 99.6 14.4 99.3 15.2 98.8	
1000.0	17.9 98.7 18.6 99.8 20.3 98.0 22.0 97.5 23.0 97.4 24.0 97.4	
1000.0	25.0 97.3 26.0 97.3 27.2 96.9 28.0 96.7 29.0 96.8 30.0 96.9	
1000.0	30.8 98.0 31.8 97.4 31.9 96.4 33.0 96.5 35.5 93.8 36.8 93.9	
1000.0	45.0 92.8 47.0 92.7 49.0 93.4 51.0 93.4 53.0 92.9 55.0 92.7	
1000.0	57.0 92.7 59.0 93.1 61.0 93.3 63.0 93.6 65.0 93.6 67.0 93.9	
1000.0	69.0 94.0 71.0 94.1 73.0 94.2 75.0 94.5 77.0 94.6 79.0 94.7	
1000.0	81.0 95.0 83.0 95.3 84.0 95.6 85.0 96.1 85.8 96.6 86.0 97.0	
1000.0	86.7 97.2 89.0 97.9 91.0 98.2 93.0 98.5 95.0 98.8 98.0 99.3	
1000.0101.0	99.9104.0100.4107.0101.1111.0101.9115.0102.7119.0103.1	
1000.0123.2103.7		
NS 1000.0	7.1 7.1 7.1 7.1 7.1 7.1	
NS 1000.0	7.1 7.1 7.1 7.1 7.1 7.1	
NS 1000.0	7.7 7.7 7.7 7.7 7.7 7.7	
NS 1000.0	7.7 7.7 7.7 7.7 7.1 8.8	
NS 1000.0	8.7 .2 8.7 8.7 .15 8.7 6.8 6.8	
NS 1000.0	6.8 6.8 6.8 6.8 6.8 6.8 .035 6.8	
NS 1000.0	.036 6.8 6.8 .08 6.8 0.1 8.9 0.15 8.9 0.2 8.9	
NS 1000.0	0.2 9.8 0.2 9.8 0.2 1.3 0.2 1.3 0.2 1.3 0.2 1.3	
NS 1000.0	1.3 1.3 1.3 1.3 1.3 1.3	
NS 1000.0	1.3 1.3 1.3 1.3 1.3 1.3	
NS 1000.0	1.3	
WSL 1000.0	95.59 95.72 95.88 96.03 96.22 96.38	
WSL 1000.0	96.50 96.59 96.67 96.74 96.80 96.85	
WSL 1000.0	96.90 96.94 96.98 97.02 97.06 97.09	
WSL 1000.0	97.12 97.15 97.18 97.23 97.28 97.34	
WSL 1000.0	97.43 97.52 97.60 97.72 97.82 97.87	
CAL11000.0	96.59 49.6	
VEL11000.0		
VEL11000.0		0.01 0.01 0.10 0.11
VEL11000.0	0.18 0.11 0.20 0.09 0.35 0.52 0.41 0.89 0.78 0.80 0.81 1.38	
VEL11000.0	1.02 0.71 0.22 0.06-0.08-0.10-0.06-0.03 0.04-0.01 0.00	
VEL11000.0		
VEL11000.0		
CAL21000.0	95.60 3.3	
VEL21000.0		
VEL21000.0		
VEL21000.0		
VEL21000.0		
VEL21000.0		
VEL21000.0		
CAL31000.0	97.84 653.7	
VEL31000.0		
VEL31000.0		
VEL31000.0		
VEL31000.0		
VEL31000.0		
VEL31000.0		
ENDJ		

Sycane River SY_4 06/26/93

RUN	MID									
PARD 30	1.00	0	1.000							
QARD 3.3	95.59		2.000	2.000						
QARD 5.0	95.72		1.800	1.800						
QARD 8.0	95.88		1.590	1.590						
QARD 12.0	96.03		1.430	1.430						
QARD 20.0	96.22		1.250	1.250						
QARD 30.0	96.38		1.130	1.130						
QARD 40.0	96.50		1.050	1.050						
QARD 49.6	96.59		1.000	1.000						
QARD 60.0	96.67		0.940	0.940						
QARD 70.0	96.74		0.900	0.900						
QARD 80.0	96.80		0.870	0.870						
QARD 90.0	96.85		0.850	0.850						
QARD 100.0	96.90		0.820	0.820						
QARD 110.0	96.94		0.800	0.800						
QARD 120.0	96.98		0.780	0.780						
QARD 130.0	97.02		0.770	0.770						
QARD 140.0	97.06		0.750	0.750						
QARD 150.0	97.09		0.740	0.740						
QARD 160.0	97.12		0.730	0.730						
QARD 170.0	97.15		0.720	0.720						
QARD 180.0	97.18		0.710	0.710						
QARD 200.0	97.23		0.690	0.690						
QARD 220.0	97.28		0.670	0.670						
QARD 250.0	97.34		0.650	0.650						
QARD 300.0	97.43		0.620	0.620						
QARD 350.0	97.51		0.590	0.590						
QARD 400.0	97.59		0.570	0.570						
QARD 500.0	97.71		0.540	0.540						
QARD 600.0	97.81		0.510	0.510						
QARD 653.7	97.86		0.500	0.500						
FFFFFFFF										**
133.5 -5.0 99.4 -3.0 99.0 0.0 98.4 2.0 98.2 3.0 97.8 4.0 97.5										
133.5 5.0 96.8 5.5 96.6 6.0 96.4 7.0 96.0 9.0 93.9 11.0 93.2										
133.5 13.0 93.1 15.0 93.0 17.0 92.9 19.0 93.0 21.0 92.7 23.0 92.6										
133.5 25.0 92.6 27.0 92.7 29.0 92.6 31.0 92.7 33.0 93.0 35.0 93.2										
133.5 37.0 93.5 39.0 93.6 41.0 93.8 43.0 93.9 45.0 94.0 47.0 94.2										
133.5 49.0 94.2 51.0 94.5 53.0 94.7 55.0 94.8 57.0 95.0 59.0 94.8										
133.5 61.0 95.1 63.0 95.3 64.0 95.5 65.0 95.7 65.5 95.9 65.9 97.3										
133.5 66.7 97.9 68.0 98.1 69.7 98.1 73.0 98.6 76.0 99.0 80.0 99.7										
133.5 85.0100.8 88.0101.3										
133.5 0.05 -5.0 0.05 -3.0 0.05 0.0 0.05 2.0										*
133.5 0.05 3.0 0.05 4.0 0.05 5.0 0.05 5.5										*
133.5 0.05 6.0 0.05 7.0 0.05 9.0 0.05 11.0										*
133.5 0.05 13.0 0.05 15.0 0.05 17.0 0.05 19.0										*
133.5 0.05 21.0 0.05 23.0 0.05 25.0 0.05 27.0										*
133.5 -.05 29.0 0.05 31.0 0.05 33.0 0.05 35.0										*
133.5 0.05 37.0 0.05 39.0 0.05 41.0 0.05 43.0										*
133.5 0.05 45.0 0.05 47.0 0.05 49.0 0.05 51.0										*
133.5 0.05 53.0 0.05 55.0 0.05 57.0 0.05 59.0										*
133.5 0.05 61.0 0.05 63.0 0.05 64.0 0.05 65.0										*
133.5 0.05 65.5 0.05 65.9 0.05 66.7 0.05 68.0										*
133.5 0.05 69.7 0.05 73.0 0.05 76.0 0.05 80.0										*
133.5 0.05 85.0 0.05 88.0										*
189.7 -4.7100.0 12.0 99.1 12.4 99.6 14.0 99.6 14.4 99.3 15.2 98.8										
189.7 17.9 98.7 18.6 99.8 20.3 98.0 22.0 97.5 23.0 97.4 24.0 97.4										
189.7 25.0 97.3 26.0 97.3 27.2 96.9 28.0 96.7 29.0 96.8 30.0 96.9										
189.7 30.8 98.0 31.8 97.4 31.9 96.4 33.0 96.5 35.5 93.8 36.8 93.9										
189.7 45.0 92.8 47.0 92.7 49.0 93.4 51.0 93.4 53.0 92.9 55.0 92.7										
189.7 57.0 92.7 59.0 93.1 61.0 93.3 63.0 93.6 65.0 93.6 67.0 93.9										
189.7 69.0 94.0 71.0 94.1 73.0 94.2 75.0 94.5 77.0 94.6 79.0 94.7										
189.7 81.0 95.0 83.0 95.3 84.0 95.6 85.0 96.1 85.8 96.6 86.0 97.0										
189.7 86.7 97.2 89.0 97.9 91.0 98.2 93.0 98.5 95.0 98.8 98.0 99.3										
189.7101.0 99.9104.0100.4107.0101.1111.0101.9115.0102.7119.0103.1										
189.7123.2103.7										
189.7 0.05 -4.7 0.05 12.0 0.05 12.4 0.05 14.0										*
189.7 0.05 14.4 0.05 15.2 0.05 17.9 0.05 18.6										*
189.7 0.05 20.3 0.05 22.0 0.05 23.0 0.05 24.0										*
189.7 0.05 25.0 0.05 26.0 0.05 27.2 0.05 28.0										*
189.7 0.05 29.0 0.05 30.0 0.05 30.8 0.05 31.8										*
189.7 0.05 31.9 0.05 33.0 0.05 35.5 0.05 36.8										*
189.7 0.05 45.0 -.05 47.0 0.05 49.0 0.05 51.0										*
189.7 0.05 53.0 0.05 55.0 0.05 57.0 0.05 59.0										*
189.7 0.05 61.0 0.05 63.0 0.05 65.0 0.05 67.0										*
189.7 0.05 69.0 0.05 71.0 0.05 73.0 0.05 75.0										*
189.7 0.05 77.0 0.05 79.0 0.05 81.0 0.05 83.0										*
189.7 0.05 84.0 0.05 85.0 0.05 85.8 0.05 86.0										*
189.7 0.05 86.7 0.05 89.0 0.05 91.0 0.05 93.0										*
189.7 0.05 95.0 0.05 98.0 0.05 101.0 0.05 104.0										*
189.7 0.05107.0 0.05 111.0 0.05 115.0 0.05 119.0										*
189.7 0.05123.2										*

ENDJ
ENDR